EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1430	((virtual adj local adj area adj network) or (vlan))	USPAT	OR	ON	2007/12/09 18:47
L2	74	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and processor and switch$4 and networks	USPAT	OR	ON	2007/12/09 18:47
L3	84	segment$1 near3 (VLan or (virtual adj local adj area adj network)) near3 network	US-PGPUB; USPAT	OR	ON	2007/12/09 18:47
L4	10	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)and processor and switch$4 and networks and segment	USPAT	OR	ON	2007/12/09 18:47
L5	1	("6598174").PN.	USPAT	OR	OFF	2007/12/09 18:47
L6	74	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and processor and switch$4	USPAT	OR	ON	2007/12/09 18:47
L7	13	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)and processor and switch$4 and networks	USPAT	OR	ON	2007/12/09 18:47
L8	14	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)	USPAT	OR	ON	2007/12/09 18:47
L9	14	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)	USPAT	OR	ON	2007/12/09 18:47
L10	22	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and 709/2$$.ccls.	USPAT	OR	ON	2007/12/09 18:47
S491	677	(virtual adj local adj area adj network) or (vlan)	USPAT	OR	ON	2007/07/29 15:46
S492	638	((irtual adj local adj area adj network) or (vlan))	USPAT	OR	ON	2004/12/12 13:40
S493	0	((irtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 same (storage adj deivices)	USPAT	OR	ON	2004/12/12 13:40

EAST Search History

S494	677	((virtual adj local adj area adj network) or (vlan))	USPAT	OR	ON	2004/12/12 13:41
S495	0	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 same (storage adj deivices)	USPAT	OR	ON	2004/12/12 13:41
S496	0	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 same storage	USPAT	OR	ON	2004/12/12 13:41
S497	26	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage	USPAT	OR	ON	2004/12/12 13:42
S498	4	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)	USPAT	OR	ON	2004/12/12 13:41
S499	1	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices) and 709/2$$.ccls.	USPAT	OR	ON	2004/12/12 13:42
S500	8	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and 709/2$$.ccls.	USPAT	OR	ON	2004/12/12 13:45
S501	26	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and processor	USPAT	OR	ON	2004/12/12 13:45
S502	26	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and processor and switch$4	USPAT	OR	ON	2004/12/12 13:46
S503	26	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and storage and processor and switch$4 and networks	USPAT	OR	ON	2004/12/12 13:46
S504	4	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)and processor and switch$4 and networks	USPAT	OR	ON	2004/12/12 15:43
S505	3	((virtual adj local adj area adj network) or (vlan)) same configur$4 same map$4 and (storage adj devices)and processor and switch$4 and networks and segment	USPAT	OR	ON	2004/12/12 15:47
S506	1	("6598174").PN.	USPAT	OR	OFF	2004/12/12 16:12

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'S507	677	((virtual adj local adj area adj network) or (vlan))	USPAT	OR	ON	2004/12/12 16:12
S508	63	(((virtual adj local adj area adj network) or (vlan)) adj switch$4)	USPAT	OR	ON	2005/01/09 10:54
S509	17	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same (segment or trunk)	USPAT	OR	ON	2005/01/09 09:52
S510	2	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same (segment or trunk) same map$4	USPAT	OR	ON	2005/01/09 09:51
S511	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same (segment or trunk) same map$4 and volume	USPAT	OR	ON	2005/01/09 09:51
S512	12	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same (segment or trunk) and mapping	USPAT	OR	ON	2005/01/09 10:52
S513	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4)and (irtual adj volume)	USPAT	OR	ON	2005/01/09 10:52
S514	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and (virtual adj volume)	USPAT	OR	ON	2005/01/09 10:52
S515	32	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and (volume)	USPAT	OR	ON	2005/01/09 10:53
S516	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and (virtual adj2 volume)	USPAT	OR	ON	2005/01/09 10:53
S517	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same (volume)	USPAT	OR	ON	2005/01/09 10:53
S518	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) with(volume)	USPAT	OR	ON	2005/01/09 10:53
S519	32	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and (volume)	USPAT	OR	ON	2005/01/09 10:53
S520	12	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and (volume)and 709/2$$.ccls.	USPAT	OR	ON	2005/01/09 10:54
S521	0	((virtual adj local adj area adj network) or (vlan)) and (virtual adj volume)	USPAT	OR	ON	2005/01/09 10:54

EAST Search History

S522	184	(virtual adj volume)	USPAT	OR	ON	2005/01/09 10:54
S523	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same volume	USPAT	OR	ON	2005/01/09 10:55
S524	0	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) same volumes	USPAT	OR	ON	2005/01/09 10:55
S525	10	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and volumes	USPAT	OR	ON	2005/01/09 10:55
S526	2	(((virtual adj local adj area adj network) or (vlan)) adj switch$4) and volumes and 709/2$$.ccls.	USPAT	OR	ON	2005/01/09 14:32
S527	1	("6597956").PN.	USPAT	OR	OFF	2005/01/09 14:38
S528	1	("5751967").PN.	USPAT	OR	OFF	2005/01/09 14:38
S529	6	(storage$1 adj device) same rout$4 same manage$4 same prevent$4	USPAT	OR	ON	2006/03/28 10:52
S530	3	map$4 and (storage$1 adj device) same rout$4 same manage$4 same prevent$4	USPAT	OR	ON	2006/03/28 10:52
S531	0	((virtual adj local adj area adj network) or (vlan)) same map$4 and (storage$1 adj device) same rout$4 same manage$4 same prevent$4	USPAT	OR	ON	2006/03/28 10:52
S532	0	((virtual adj local adj area adj network) or (vlan)) and map$4 and (storage$1 adj device) same rout$4 same manage$4 same prevent$4	USPAT	OR	ON	2006/03/28 10:53
S533	6	(storage$1 adj device) same rout$4 same manage$4 same prevent$4	USPAT	OR	ON	2006/03/28 10:54
S534	3	(storage$1 adj device) same rout$4 with manage$4 with prevent$4	USPAT	OR	ON	2006/03/28 11:45
S535	1	("5751967").PN.	USPAT	OR	OFF	2006/03/28 11:45
S536	0	("segment$1near3(VLanor(virtualadj localadjareaadjnetwork))samenetwork").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/29 15:49
S537	174	segment$1 near3 (VLan or (virtual adj local adj area adj network)) same network	US-PGPUB; USPAT	OR	ON	2007/07/29 15:49
S538	75	segment$1 near3 (VLan or (virtual adj local adj area adj network)) near3 network	US-PGPUB; USPAT	OR	ON	2007/07/29 15:49

EAST Search History

S539	3	((plurality or multi) adj segment$1) near3 (VLan or (virtual adj local adj area adj network)) near3 network	US-PGPUB; USPAT	OR	ON	2007/07/29 16:45
S540	0	@ad<"20011127" and ((plurality or multi) adj segment$1) near3 (VLan or (virtual adj local adj area adj network)) near3 network	US-PGPUB; USPAT	OR	ON	2007/07/29 16:44

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filtered, processed and stored, and generally requires its own **virtual local area network**. (VLAN). To gain all the promised benefits and return on ...

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1 Papers: Automatic VLAN creation based on on-line measurement

Sean Rooney, Christian Hörtnagl, Jens Krause

July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(806.29 KB) Additional Information: full citation, abstract, references

Virtual LANs (VLANs) permit hosts connected to a LAN switch to be grouped together into logical groups as a function of some management policy rather than simply of their physical location. Commercial LAN switches support a variety of policies based on either physical or logical addresses, protocol types, tagged frames, or user defined rules. The objective of these policies is the same: to reduce the amount of traffic that needs to be routed by grouping together hosts which are likely to communi ...

2 Security and mobility: VLAN over multi-hop wireless LAN system

Susumu Matsui, Kazuya Monden, Tadanori Mizuno

September 2006 **Proceedings of the 2006 workshop on Broadband wireless access for ubiquitous networking BWAN '06**

Publisher: ACM Press

Full text available: pdf(116.24 KB) Additional Information: full citation, abstract, references, index terms

Recently, a multi-hop wireless LAN system that APs (Access Point) are connected by ad-hoc network technology each other without the need for any cable, is introduced to expand the coverage easily. And some WISPs (Wireless Internet Service Providers) announced that they will offer a public wireless LAN service.in partnership with a company providing the physical wireless infrastructure. To realize that service, the VLAN technology is very useful. So we proposed VLAN over multi-hop wireless LAN sy ...

Keywords: VLAN, WLAN, ad-hoc network, multi-ESS-ID, routing, wireless internet service provider

3 Network security: Towards automated provisioning of secure virtualized networks

Serdar Cabuk, Chris I. Dalton, HariGovind Ramasamy, Matthias Schunter

October 2007 **Proceedings of the 14th ACM conference on Computer and communications security CCS '07**

Publisher: ACM

Full text available: pdf(325.55 KB) Additional Information: full citation, abstract, references, index terms

We describe a secure network virtualization framework that helps realize the abstraction of Trusted Virtual Domains (TVDs), a security-enhanced variant of virtualized network zones. The framework allows groups of related virtual machines running on separate physical machines to be connected together as though there were on their own separate network

fabric and, at the same time, helps enforce cross-group security requirements such as isolation, confidentiality, security, and information flow ...

Keywords: automated security provisioning, network security, network virtualization, security policies, trusted virtual domains

4 An OPNET-based simulation approach for deploying VoIP

K. Salah, A. Alkhoraidly

May 2006 **International Journal of Network Management**, Volume 16 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, index terms

These days a massive deployment of VoIP is taking place over IP networks. VoIP deployment is a challenging task for network researchers and engineers. This paper presents a detailed simulation approach for deploying VoIP successfully. The simulation uses the OPNET network simulator.Recently OPNET has gained a considerable popularity in both academia and industry, but there is no formal or known approach or methodology as to how OPNET can be used to assess the support and readiness of an existing ...

5 Measurement: Characterizing VLAN usage in an operational network

Prashant Garimella, Yu-Wei Eric Sung, Nan Zhang, Sanjay Rao

August 2007 **Proceedings of the 2007 SIGCOMM workshop on Internet network management INM '07**

Publisher: ACM

Full text available: pdf(255.04 KB) Additional Information: full citation, abstract, index terms

In this paper, we present one of the first studies characterizing VLAN usage in a large operational network. Our study employs a "white-box" approach, based on analysis of switch and router configuration files, and interactions with network operators. Our findings are: (i) VLANs are extensively used to enable users at physically disparate locations to be treated as a group; (ii) the performance inefficiencies resulting from such usage is significant; and (iii) the inefficiencies are exacerbat ...

Keywords: VLAN, configuration errors, protocol abstraction

6 Migration Issues and Strategies for Token Ring

Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love

July 1997 **International Journal of Network Management**, Volume 7 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(472.60 KB) Additional Information: full citation, abstract, index terms

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

7 Topology discovery for large ethernet networks

Bruce Lowekamp, David O'Hallaron, Thomas Gross

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(144.05 KB) Additional Information: full citation, abstract, references, citings, index terms

Accurate network topology information is important for both network management and application performance prediction. Most topology discovery research has focused on wide-area networks and examined topology only at the IP router level, ignoring the need for LAN topology information. Recent work has demonstrated that bridged Ethernet topology

can be determined using standard SNMP MIBs; however, these algorithms require each bridge to learn about all other bridges in the network. Our approach to ...

8 Security: The shunt: an FPGA-based accelerator for network intrusion prevention

Nicholas Weaver, Vern Paxson, Jose M. Gonzalez
February 2007 **Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays FPGA '07**
Publisher: ACM Press
Full text available: pdf(240.27 KB) Additional Information: full citation, abstract, references, index terms

The sophistication and complexity of analysis performed by today's network intrusion prevention systems (IPSs) benefits greatly from implementation using general-purpose CPUs. Yet the performance of such CPUs increasingly lags behind that necessary to process today's high-rate traffic streams. A key observation, however, is that much of the traffic comprising a high-volume stream can, after some initial analysis, be qualified as "likely uninteresting." To this end, we have developed an in-line, ...

Keywords: FPGA, NIC, hardware acceleration, intrusion detection

9 Information visualization: The visualisation of application delay metrics for a customer network

Janet L. Wesson, Darelle van Greunen, Justin Rademan
November 2004 **Proceedings of the 3rd international conference on Computer graphics, virtual reality, visualisation and interaction in Africa AFRIGRAPH '04**
Publisher: ACM Press
Full text available: pdf(749.07 KB) Additional Information: full citation, abstract, references, index terms

Application services are fundamental network components that allow organizations the ability to operate efficiently. It has become essential for organizations to monitor the performance of these critical applications. Traditional network analysis tools, however, cannot cope with the size of today's network infrastructures and the volume of network data generated. The goal of this paper is to discuss the development of a visualisation system, called AppVis, that uses information visualisation ...

Keywords: application delay metrics, information visualisation, network management

10 Using policies for effective network management

Michele J. Wright
March 1999 **International Journal of Network Management**, Volume 9 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(469.84 KB) Additional Information: full citation, abstract, index terms

The goal of policy-based management is to reduce the complex administration of networks. Copyright © 1999 John Wiley & Sons, Ltd.

11 Flexible network topologies for your computing lab: VLAN and router technology at work in the classroom

Robert Belles, Sandra Gorka, Jacob R. Miller
February 2002 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 3
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(26.49 KB) Additional Information: full citation, abstract, references, citings, index terms

In our multipurpose computer labs, we often have the necessity of reconfiguring the network topology to accommodate different classes. Some classes require that the lab be configured as a single network with Internet access while, at the other end of the spectrum, some classes require that the lab be configured as multiple, separate, small

networks isolated from the Internet and the rest of the school. Historically, we have accomplished this using a series of hubs and switches to connect many sm ...

12 Vision & challenges: Global growth of open access networks: from warchalking and connection sharing to sustainable business

Roberto Battiti, Renato Lo Cigno, Fredrik Orava, Bjorn Pehrson

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(226.85 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the evolution of W-LAN starting from the mere extension of LAN services indoors, through the widespread diffusion of outdoors coverage with free and often un-authorized access, to the business models supporting their evolution to public coverage HotSpots. Besides, the idea of Open Access Networks (OANs) going beyond wireless HotSpots to become a shared access infrastructure fostering service operators competition is introduced and discussed.The concept of Open Access Network ...

Keywords: 802.11, WiFi, mobility, open access networks

13 Modelling layer 2 and layer 3 device bandwidths using B-node theory

S. Cikara, S. P. Maj, D. T. Shaw

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 48 ACSC '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(269.35 KB) Additional Information: full citation, abstract, references, index terms

Modern computer networks contain an amalgamation of devices and technologies, with the performance exhibited by each central to digital communications. Varieties of methods exist to measure and/or predict these performance characteristics. "Rule-of-Thumb" is subjective and based on prior experience, typically offering little mathematical rigour. Benchmarks use different scales and units, with comparative results possibly requiring further interpretation. Stochastic modelling uses complex mathema ...

Keywords: B-Nodes, bandwidth, modelling, performance

14 Wireless LANs: from WarChalking to open access networks

Roberto Battiti, Renato Lo Cigno, Mikalai Sabel, Fredrik Orava, Björn Pehrson

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.45 MB) Additional Information: full citation, abstract, references, index terms

This work discusses the evolution of W-LANs from their current status of wireless termination of LAN services to a possible global infrastructure where the access networks become open to multiple operators and a vehicle of a win-win scenario, where both users and operators benefit from the new network architecture. The idea of Open Access Networks (OANs) can go beyond wireless HotSpots and be generalized to a generic shared access infrastructure that fosters service operators competition and dra ...

Keywords: business models, open access networks, resource sharing, telecommunications architecture, user-operator interaction, wireless LANs

15 From 0 - 60 in 4.2 seconds supporting the RESNET

Amy Magno, Tom Bohlke

November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**

Publisher: ACM Press
Full text available: pdf(133.30 KB) Additional Information: full citation, abstract, index terms

Our Help Desk had traditionally supported faculty & staff but in August 2004 that all changed with a decision that the Help Desk would offer support to students in the residence halls later that month. We then expanded further, providing technical assistance to all students (including commuter students) by the end of that same fall semester. To add to this challenge, Perfigo (now called CleanAccess) was implemented in the residence halls the day before move-in weekend!This paper will address man ...

Keywords: VLAN, cleanAccess, help desk, resNet

16 Topology discovery in heterogeneous IP networks: the *NetInventory* system
Yuri Breitbart, Minos Garofalakis, Ben Jai, Cliff Martin, Rajeev Rastogi, Avi Silberschatz
June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3
Publisher: IEEE Press
Full text available: pdf(435.97 KB) Additional Information: full citation, abstract, references, index terms, review

Knowledge of the up-to-date physical topology of an IP network is crucial to a number of critical network management tasks, including reactive and proactive resource management, event correlation, and root-cause analysis. Given the dynamic nature of today's IP networks, keeping track of topology information manually is a daunting (if not impossible) task. Thus, effective algorithms for automatically discovering physical network topology are necessary. Earlier work has typically concentrated on e ...

Keywords: IP network management, SNMP MIBs, physical network topology, switched Ethernet

17 Session 38: communication-driven synthesis: Synthesis of high-performance packet processing pipelines
Cristian Soviani, Ilija Hadžić, Stephen A. Edwards
July 2006 **Proceedings of the 43rd annual conference on Design automation DAC '06**
Publisher: ACM Press
Full text available: pdf(821.60 KB) Additional Information: full citation, abstract, references, index terms

Packet editing is a fundamental building block of data communication systems such as switches and routers. Circuits that implement this function are critical and define the features of the system. We propose a high-level synthesis technique for a new model for representing packet editing functions. Experiments show our circuits achieve a throughput of up to 40Gb/s on a commercially available FPGA device, equal to state-of-the-art implementations.

Keywords: FPGAs, high-level synthesis, networking, packet processors

18 EuQoS approach for resource allocation in ethernet networks
Maxweel Silva Carmo, Jorge Sa Silva, Edmundo Monteiro
September 2007 **International Journal of Network Management**, Volume 17 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(615.28 KB) Additional Information: full citation, abstract, references, index terms

Although the equipment currently available for Ethernet LANs provides basic quality of service (QoS) capabilities, as the ability of prioritizing traffic flows, it does not support more complex mechanisms like admission control or the ability of participating in a signalling process. This paper presents a survey on the QoS support and on resource allocation for LAN Ethernet networks, and describes a new proposal in the scope of the EuQoS project. The proposed solution is validated as proof of ...

19 Traffic analysis and location privacy: Shunting: a hardware/software architecture for flexible, high-performance network intrusion prevention

Jose M. Gonzalez, Vern Paxson, Nicholas Weaver

October 2007 **Proceedings of the 14th ACM conference on Computer and communications security CCS '07**

Publisher: ACM

Full text available: pdf(578.51 KB) Additional Information: full citation, abstract, references, index terms

Stateful, in-depth, inline traffic analysis for intrusion detection and prevention is growing increasingly more difficult as the data rates of modern networks rise. Yet it remains the case that in many environments, much of the traffic comprising a high-volume stream can, after some initial analysis, be qualified as of "likely uninteresting." We present a combined hardware/software architecture, *Shunting*, that provides a lightweight mechanism for an intrusion prevention system (IPS) to ...

Keywords: fpga, hardware acceleration, intrusion detection, intrusion prevention, nids, nips

20 Reviewed articles: A clean slate 4D approach to network control and management

Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, Hong Yan, Jibin Zhan, Hui Zhang

October 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(313.74 KB) Additional Information: full citation, abstract, references, index terms

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the way the decision logic and the distributed-systems issues are inexorably intertwined. We advocate a complete refactoring of the functionality and propose three key principles--network-level objectives, network-wide views, and direct control--that ...

Keywords: control, network management, robustness

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